PUBSID From Federal #2 occited:
1300 FSL & 1300 FWL (SAME FILE)
Well plugged?

(Other instructions on reverse side) **UNITED STATES**

SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

	DEPARTMENT	OF THE I	NTER	RIOR		ſ	5. LEASE DESIGNATI	ON AND SERIAL NO.
	GEOLO	GICAL SURV	ΕY				U=17978-	- A
APPLICATION	FOR PERMIT 1	O DRILL	DEEPE	N. OR P	LUG B	ACK	6. IF INDIAN, ALLOY	TEE OR TRIBE NAME
1a. TYPE OF WORK	TOR TERRITOR	O DIVILLY.		.,				
	LL X	DEEPEN		PLU	JG BAC	ж 🗆 📗	7. UNIT AGREEMENT	C NAME
b. TYPE OF WELL	a ren		8T	NGLE	MULTIP		C TIPL OR LINE	Manage
	S X OTHER			NE L	ZONE		8. FARM OR LEASE	NAME
2. NAME OF OPERATOR						. 1	9. WELL NO.	
Larmack 3. Address of Operator	Drilling Comp	any					Toledo Feder	nal Ren
	5 Road, Grand J	unction E	narafr	dn 815∏1			10. FIELD AND POOL	
4. LOCATION OF WELL (Re	port location clearly and	in accordance wi	th any S	tate requiremen	nts.*)		Wildcat	
At surface		•					11. SEC., T., B., M.,	OR BLK.
	JL, 13 0 0 F5L						AND SURVEY OR	
At proposed prod. zone	same					Ī	Sec.3,T225,R	ZIE, OLM
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAD	EST TOWN OR POS	T OFFICE	•			12. COUNTY OR PAR	SH 13. STATE .
5 miles	MW to Thompson	. Utah					Grand	Utah
15. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*		16. NO	. OF ACRES IN	LEASE		F ACRES ASSIGNED	
PROPERTY OR LEASE L. (Also to nearest drig	INE, FT.	320 '		1200.0			160	
18. DISTANCE FROM PROPO TO NEAREST WELL, DE	SED LOCATION*		19. PR	OPOSED DEPTH		20. ROTAL	RY OR CABLE TOOLS	, .
OR APPLIED FOR, ON THI	S LEASE, FT.	1 mile		1500 '		Rot	tary	
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)							WORK WILL STARTS
	4733 GR						October	<u>15, 1978</u>
23.	F	PROPOSED CASI	NG AND	CEMENTING	PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F		SETTING D	EPTH		QUANTITY OF CE	MENT
8 3/4"	711	17 lb (r		200 f			s Class G - Ci	rculate
6 1/4"	4½"	10.5 lb (r	теш)	1500 f	t.	40 sks	Dowell RFC	
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Surrace FMN - Ma Stimated Tops:	aucos puate			State (of Utah	, Depar	tment of Natu	ıral Resource:
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Buckhorn:				1000 ¥	vosi N.	odo Tar	Mala La	<u>.</u>
Salt Wash				Sait La	ike City	. Utah	84116	
ressure Control		ttached sho	շաւրզ	80P, Kil	l Line	s, Chec	k Valves & F	¹ressure
	Ratings, Se					•		* = = +
ogging: IES	6 & FDC-CNL, No	Coring Pla	anned.	•		2		
H az ards: Exp	perience does n	ot indicate	e that	t abnorma	l pres	sures d	of Hydrogen 9	Sulfide
	ll be encounter					~ .	的复数 建二品	
Starting Date: 0	October 15, 197	B, Ten days	s Opei	rating Ti	me.	•		
						*		
IN ABOVE SPACE DESCRIBE zone. If proposal is to preventer program, if any	drill or deepen directions	proposal is to dee ally, give pertinen	pen or p it data o	lug back, give n subsurface lo	data on proceedings an	resent produ id measured	nctive zone and prop I and true vertical de	osed new productive pths. Give blowout
24.	11/.	,1					The second second	3 of
SIGNED	J. Kalendi	The man	TLE	Operato	r		DATE	1-30-78
(This space for Feder	ral or State office use)				•	¥.		
				APPROVAT. DATE				

ACTING DISTRICT ENGINEER

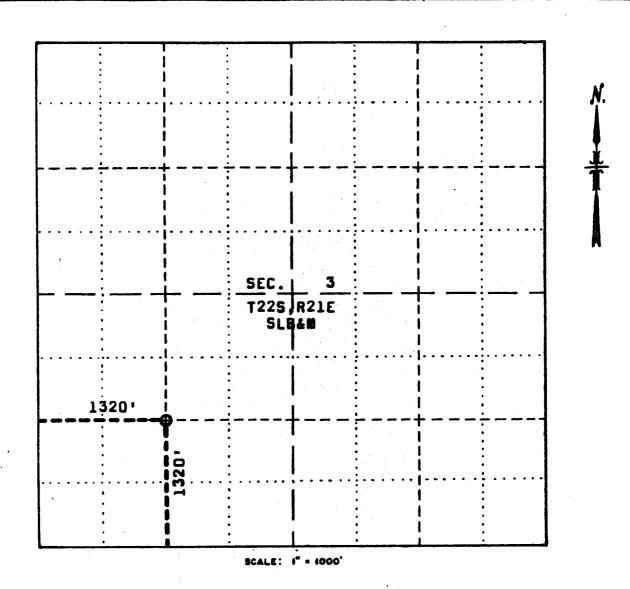
NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

CONDITIONS OF APPROVAL, IF ANY

APPROVED BY

NECESSARY FLARING OF GAS DURING DRILLING AND COMPLETION APPROVED SUBJECT TO ROYALTY (NTL-4)

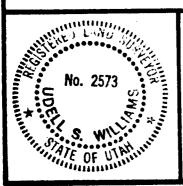


WELL #2 TOLEDO FEDERAL

Located North 1320 feet from the South boundary and East 1320 feet from the West boundary of Section 3, T225, R21E, SLB&M.

ELEV. 4733

Grand County, Utah



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF





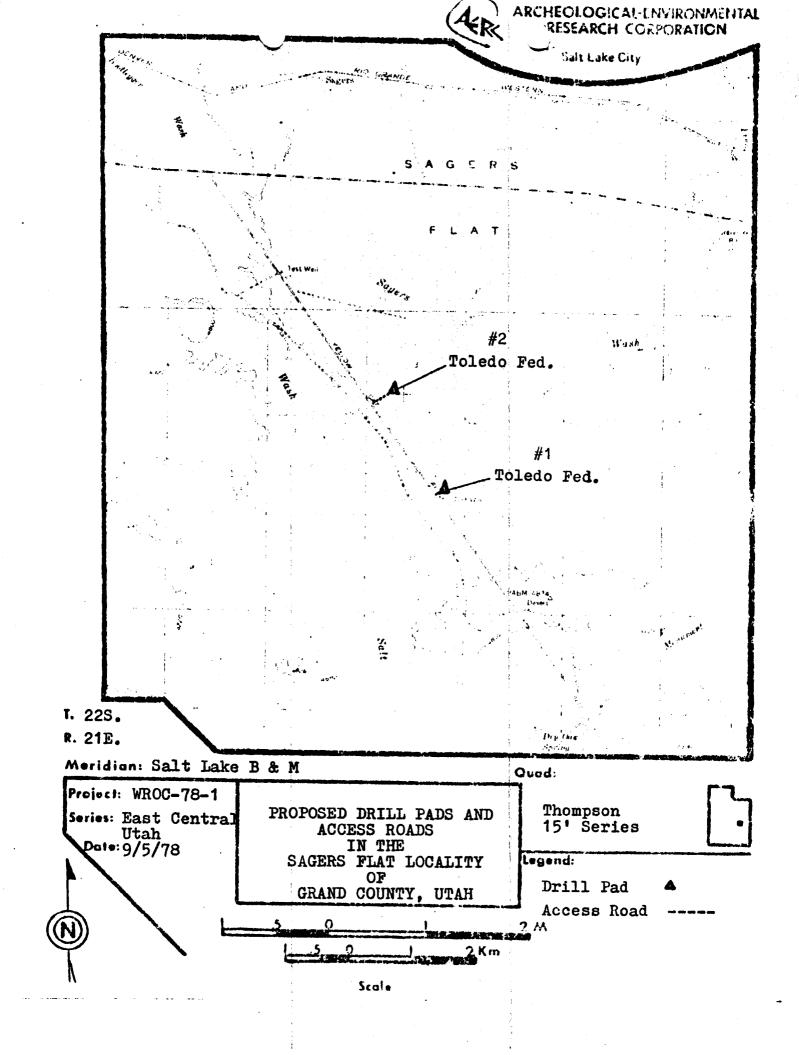
UDELL S. WILLIAMS
751 Rood Avenue
GRAND JUNCTION, COLORADO 81501

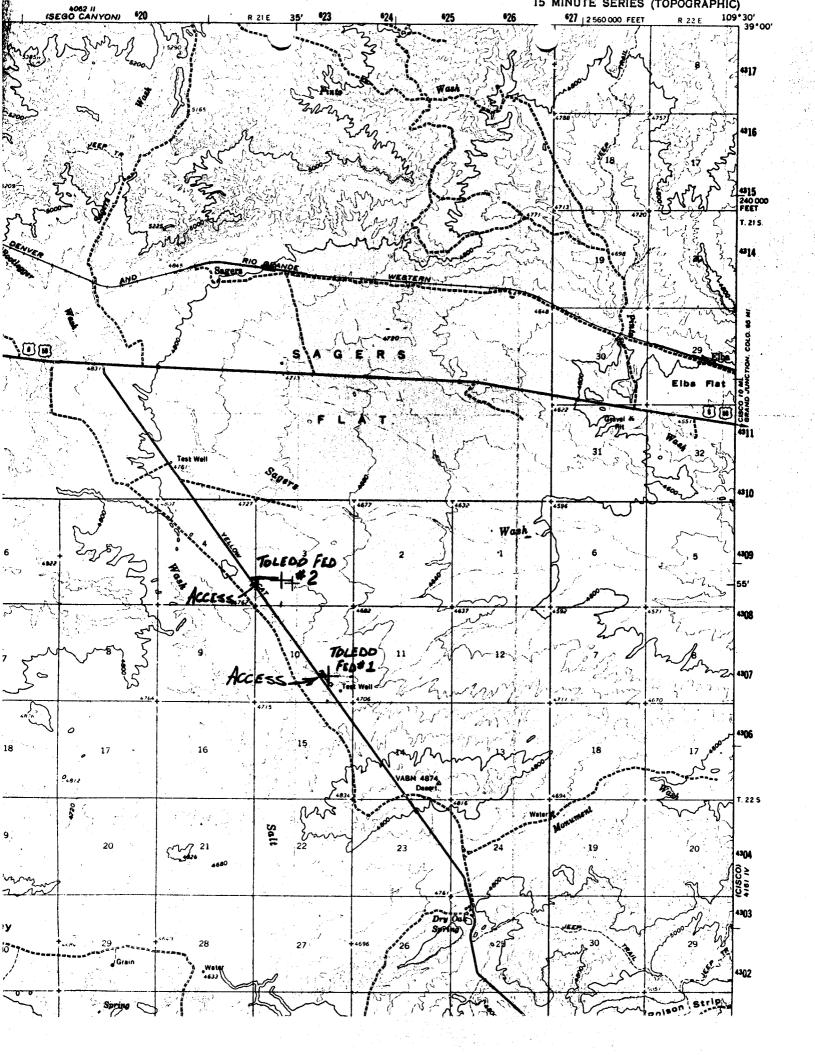
PLAT OF PROPOSED LOCATION

WELL #2 TOLEDO FEDERAL SW1 SECTION 3 T22S, R21E, SLB&M

DRAWN BY: USW DATE: 8/3/78

6





J. N. BURKHALTER

Oil, Gas and Pipeline Consultant

592 25 Road Grand Junction, Colorado 81501 Telephone 303/242-8555

Professional Engineers and Land Surveyor Registered in Pocky Jountain States

> Re: Toledo Federal Well No. 2 CSW Sec.3, T22S, R21E, SL88M Grand County, Utah Lease: U-17978-A

> > PRESSURE MONITORING AND CONTROL DATA SEVEN POINT PLAN

1. Surface Casing: Set at 200'
Size 7"
Weight 17#
Length Range 2
Grade J-55 new. Tested in 3000 paig.

 Casing Heads: Series 600 - 1500 psi working pressure.

3. Production Casing:
Size 4½"
Weight 10.5#
Length Range 3
Grade J-55 New Tested to 3000 psig.

4. Pressure Control:
BDP RAM Type
Series 600 - Tested to 3000 psig
Rams Pipe & Blind
Will use fill, kill and chake lines.

5. Auxiliary Pressure Control:

a. Kelly cocks.

b. Check valve at bit.

c. Monitoring equipment on mud system.

- d. A sub on floor with a full opening valve to be stabbed into drill pipe when Kelly is out of string.
- 6. Anticipated Bottom Hole Pressure: 550 psig.
- 7. The Type of Drilling Fluid:
 Air until gas encountered.
 Mud up with Polymer mud with NaCl and CaCl₂ as weighting agent 10.5 to 11.00 lb. per gallon as required.



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Professional Engineer and Land Surveyor Registered in Rocky Injuntain States

> Toledo Federal Well No. 2 CSW Sec.3, T225, R21E, SLB&M Grand County, Utah

SURFACE USE PLAN

Geographical: 5 miles southeast of Thompson, Utah.

Terrain: Low, rolling hills of Mancos shale.

Vegetation: Very sparse.

Surface Water: None. This is dry, desolate, desert country.

1. Existing Roads: Existing roads are 15-18 feet wide, with native ground as surface material. This is primarily Mancos shale with a little Cretaceous gravel in some places.

Toledo Federal Well No. 2 is located South of I-70 and 500 East of Yellowcat Road. A turnout will be required off of Yellowcat Road.

The included map shows all access roads and roads within a several mile radius of the locations.

There are no immediate plans, for improvement of existing roads. If commercial production is found and road improvement is needed, it will be considered at the appropriate time.

- 2. Planned Access Roads: The map indicates all necessary access roads to be constructed which will be to the same physical characteristics as existing roads 15-18 feet wide with native Mancos shale as surface with maximum grades not to exceed 3-4%. There will be no culverts required and no major cuts and fills required for access to the well applied for. No fence cuts or cattle gaurds will be required.
- 3. Location of Existing Wells: As you can see from the map, existing wells have been located upon the map. The status of the wells is generally indicated on the map by the manner in which the well is marked. There are no water wells or disposal wells.

Surface Use Plan (con't)

The well applied for in this application has been referenced in four directions with reference stakes set at 150 and 200 feet in four directions.

- 4. Location of Existing and/or Proposed Facilities:
 - a) There are no tank batteries off of well locations within a one mile radius of the proposed location. Gas gathering lines are indicated on the attached map. All lines in the area are surface lines.
 - b) If production is found, storage facilities will be located on the location. If oil storage facilities are needed, application will be made. If gas is discovered in commercial quantities, necessary pipelines will be applied for at that time.
 - Complete protective measures such as fences will be used to protect livestock and wildlife win the area.
 - c) Rehabilitation of all disturbed areas no longer needed after construction is completed will be returned to smooth contour and all debris will be cleaned up. All pits will be covered and cleaned up after drill operations. Those pits required for production will be fenced.
- 5. Location and Type of Water Supply: Water will be acquired from Thompson, which is about 5 miles northwest of the proposed well location. Water will be transported by truck. Existing roads will be used to transport water.
 - No water well will be drilled on the lease.
- 6. Source of Construction Materials: No construction materials such as sand, gravel, stone and soil will be used other than that found in the native location.
 - In the event that tanks and production equipment are required, gravel will be hauled from Grand Junction, Colorado or Moab, Utah to set tanks on. This gravel will be purchased from private enterprise.
- 7. Methods for Handling Waste Disposal:
 - a) Cuttings The hole will be 90% air drilled and cuttings will be blown into the pit and buried.
 - b) Drilling Fluids Will be contained in steel mud tanks. A dirt pit will be dug to contain excess flow out of the well during cementing and completion operations. Of course, these pits will be cleaned up and covered up.
 - c) Produced Fluids such as Oil and Water Will be properly disposed of with oil being stored in tanks and water being diverted to the pit and disposed of as required.

- d) Sewage A portable chemical toilet will be provided on location during drilling operations.
- e) Garbage and Other Waste: Material Will be contained in 30 gallon galvanized garbage cans and hauled off the location.
- f) As stated before, the entire well site area will be properly cleaned up and restored to smooth contour when the rig moves out. Only that part of the location required for production operations will be kept in use. In the event of a dry hole, the only appurtenance left at the location will be the required dry hole marker.
- 8. Ancillary Facilities: There will be no camps or air strips required for this drilling operation.
- 9. Well Site Layout: A plat on a scale of 1" = 40! is included with the application showing location and orientation of the drilling rig, mud tanks, reserve pit, pipe racks and other appurtenances to the operation. For the time being pits will be unlined as allowed by present law. The only water introduced into these pits will be fresh water used in the drilling operation.
- 10. Plans for Restoration of Surface: As stated before, the entire location will be restored to smooth contour. Also stated, the vegetation in this desert area is extremely sparse. Created wheat grass or sandrop seed will be broadcast and harrowed in. Four pounds per acre.

It is intended to have all locations cleaned up within 30 days after operations are concluded.

11. Other Information:

- a) The topography of these locations near Thompson, Utah is a very gentle rolling, flat characteristic. The soil is raw Mancos shale with extremely sparse vegetation. A few coyotes, prairie dogs and cottontail rabbits occupy the entire area.
- b) The only other surface use activities other than petroleum exploration in the area is in spring grazing of the sparse vegetation by cattle and sheep. Uranium mining is conducted approximately 3 miles southward.
- c) The proximity of water has been described at Thompson, (about 5 miles northwest). The only occupied dwellings are at Thompson, Utah, which has been located already. There will be no disturbance to archeological, historical or cultural sites by drilling the applied-for well in the present application. The land is under the jurisdiction of the Bureau of Land Management.

12. Operator's Representative:

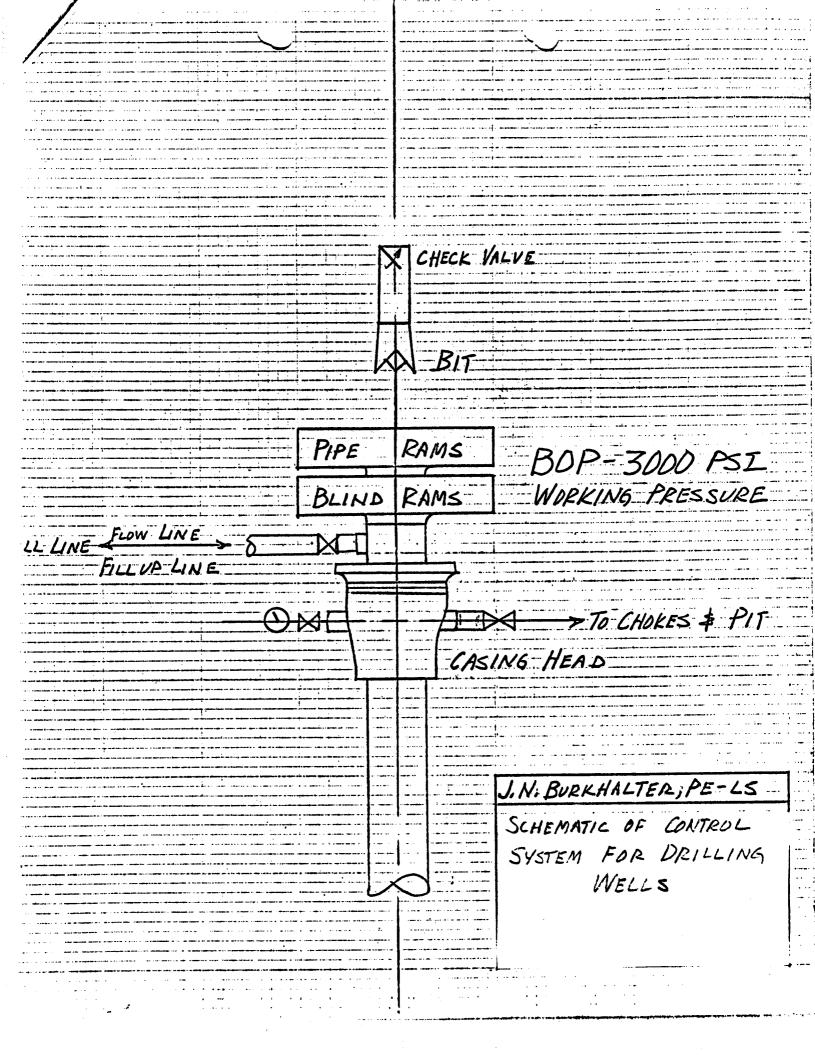
J. N. Burkhalter 592 - 25 Road Grand Junction, Colorado 81501 (303) 242-8555 Mobile (303) 245-3660, Unit 472 13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Carmack Drilling Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

9-30-78

Date

Robert Carmack

Operator



U.S. GEO 3 AL SURVEY, CONSERVATION DI SION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT Moab District Office

Summary Report of Inspection for Cultural Resources

BLM Use Only: Use Initials. Case File No.	· · ·
Report Acceptable Yes No	
Mitigation Acceptable Yes No_ Comments:	

Project Name, Developer West Rangely Operating Co., Inc.

Archeological Research in the Sagers Flat Drilling Exploration Project locality in Grand County. Utah (WROC-78-1)

. Legal Description of Project Area (Attach Map Also)

Township 22 South, Range 21 East, Sections 3 and 10

Institution Holding Antiquities

4. Antiquities Permit No.

No collections were made.

78-Ut-014

Dates of Field Work

August 22, 1978

Description of Examination Procedures An archeologist walked parallel transects 30 feet apart for a 200 foot radius from two proposed drill sites and along a 100 foot wide corridor for the proposed access roads.

Description of Findings (Attach forms or detailed report, if appropriate)

No cultural resources were observed during the survey.

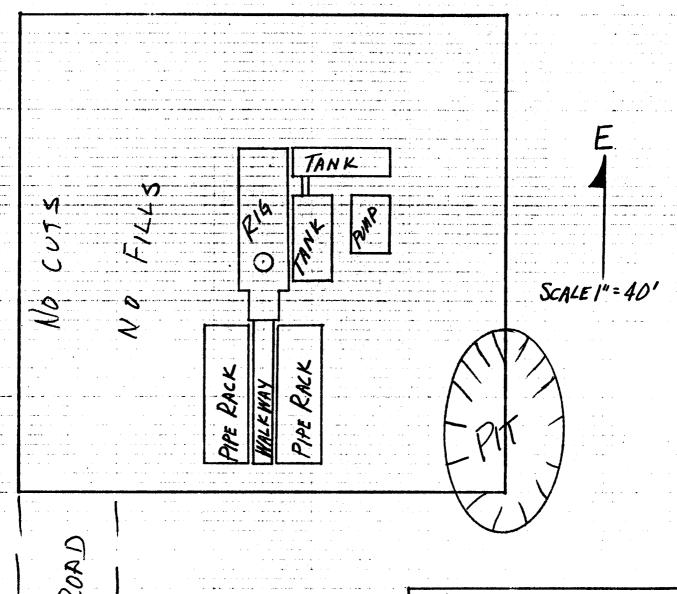
Actual/Potential National Register Properties Affected

A records check of the locality shows that no previously registered National

Register properties will be affected by the project.
Conclusions/Recommendations 1. All vehicular traffic, personnel movement, and construction be confined to the locations examined and to access roads leading into these locations; 2. all personnel refrain from collecting individual artifacts or from disturbing any cultural resources in the area; 3. a qualified archeologist be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the construction area.

Signature of Person in Direct Charge of Field Work

Title of Institutional Officer Responsible



J.N. BURKHALTER, PE-LS

PROPOSED ROAD LOCATION

SITE LAYOUT

TOLEDO FEDERAL NO. 2

C SW SEC 3, T22S, R 21E

SLM, GRAND G, UTAH



TOLEDO MINING COMPANY

322 NEWHOUSE BLDG. • SALT LAKE CITY, UTAH 84111 • PHONE 801-322-0417

October 3, 1978

ANTHONY G. HATSIS

PRESIDENT

District Oil and Gas Engineer U. S. Geological Survey Conservation Division 8440 Federal Building Salt Lake City, Utah 84138

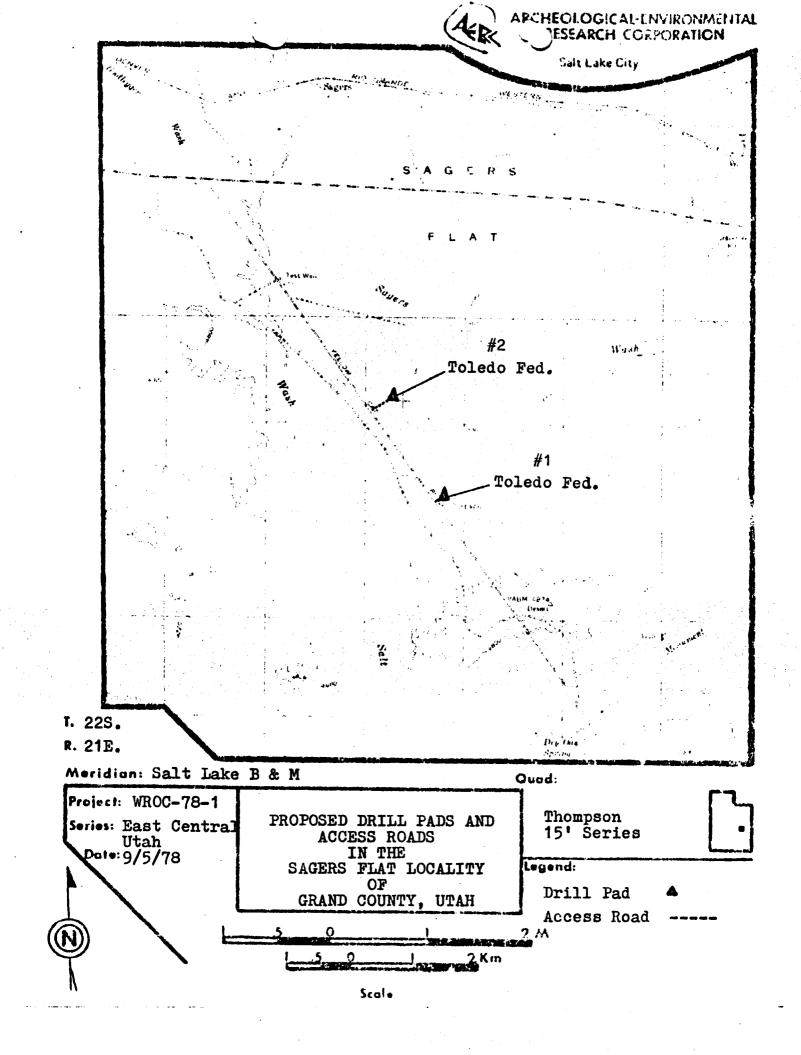
Re: Stipulation

Dear Sir:

Toledo Mining Company is the owner of U. S. Oil and Gas Lease

A. G. Hatsis

President



United States Department of the Interior Geological Survey 8440 Federal Building Salt Lake City, Utah 84138

Usual Environmental Analysis

Environmental S Salt Lake City,	cientist	George Diwachak Environmental Scientist Salt Lake City, Utah
Analysis Prepared by: Ray Foster	Down 1	
(2)	•	Special 115ac
(1) Book Mountain Planning Unit - BLM -	Moales	1200 June 2012 July
Related Environmental Analyses and Re	eferences:	Pad 2 Sox 3 Contract
		
•	3.3. 303,021	
Ray Foster	U.S. Geologi	
Hart Gleason	Operator Rep	•
Elmer Duncan	Rureau of La	nd Management
Participants and Organizations:		
Joint Field Inspection Date October		•
Status: Surface Ownership Public		• •
County Grand Sta		•
Location Center SW4	Sec. 3 T. 2	2S R. 21E
Operator Carmack Drilling Company	Well	No. 2. Toledo Federal
Lease No. <u>U 17978-A</u>		

Proposed Action:

On October 3, 1978, Carmack Drilling Company filed an Application for Permit to Drill the No. 1 Toledo Federal exploratory well, a 1500-ft. test of the Salt Wash member of Morrison formation; located at an elevation of 4733 ft., in the center of the SW4, section 3, T.22S., R.21E on Federal mineral lands and Public surface; lease No. U 17978-A. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventer would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface and 13-Point Surface Protection Plans are on file in the U.S.G.S. District Office in Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Woming.

A working agreement has been reached with the Bureau of Land Management, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 200 ft. wide x 200 ft. long and a reserve pit 50 ft., x 90 ft. A new access road would be constructed 18 ft., wide x 1200 ft. long from an existing and improved road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad.

If production is established, plans for a gas flow line would be submitted to the approporiate agencies for approval. The anticipated starting date is upon approval and duration of drilling activities would be about 10 days.

Location and Natural Setting:

The proposed drillsite is approximately 5 miles southeast of Thompson, Utah, the nearest town. A good road runs to within 1/2 mile of the location. This well is a wildcat.

Topography:

Very gentle rolling terrain of shale hills cut by small errosional gullys. Location is on level surface.

Geology:

The surface geology is Mancos shale. The soil is shaley. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan. Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs will be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels which might permit exposed upper formations to blowout or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep into the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation. The operator proposes to drill with air methods, eliminating lost circulation problems.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah. The operator's drilling, cementing, casing, and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay-type soil. The soil is subject to runoff from rainfall and has a high runoff potential, and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 1.5 acre of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, and reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rainfall should range from about 6 to 9 inches at the proposed location. The majority of the numerous drainages in the surrounding area are of a nonperennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 6 inches.

Winds are medium and gusty, occurring predominantly from West to East. Air mass inversions are rare.

The climate is semiarid with abundant sunshine, hot summers and cold winters, with temperature variations on a daily and seasonal basis.

Surface-Water Hydrology:

Drainage is to the south toward Nash Wash which flows in a southwesterly direction toward the Colorado River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surfacewater systems.

The potentials for pollution would be present from leaks or spills. The operator is required to report and clean up all spills or leaks.

Ground-Water Hydrology:

Some minor pollution of ground-water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination, and commingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basis information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B.

The depths of fresh-water formations are listed in the 10-Point Subsurface Protection Plan. There would be no tangible effect on water migration in fresh-water aquifers. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Sparse grasses, shadscale, sage. Plants in the area are of the salt-desert-shrub types.

Proposed action would remove about 1.5 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

Animal and plant inventory has been made by the Bureau of Land Management. No endangered plants or animals are known to habitat on the project area. The fauna of the area consists predominantly of coyotes, rabbits, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If an historic artifact, an archaeological feature or site is discovered during construction operations, activity would cease until the extent, the scientific importance,

and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings and other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and are judged to be minor. All permanent facilities placed on the location should be painted a light sand color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to predrilling levels.

The site is visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area but would not present a major intrusion.

The economic effect of one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Grand County. But should this well discover a significant new hydrocarbon source, local, State, and possibly National economies might be improved. In this instance, other development wells would be anticipated with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and U.S. Geological Survey's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

Land Use:

- ✓ There are no National, State, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails, or other formally designated recreational facilities near the proposed location.
- The proposed location is within the Book Mountain Planning Unit (06-01). This Environmental Assessment Record (EAR) was compiled by the Bureau of Land Management, the surface management agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations.

The EAR is on file in the agency's State Offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserve pits would contain all fluids used during the operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternatives to the Proposed Action:

(1) Not approving the proposed permit -- The oil and gas lease grants the Lessee exclusive right to drill for, mine, extract, remove, and dispose of all oil and gas deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development <u>if</u> the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under the U.S. Geological Survey and other controlling agencies' supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

(2) Minor relocation of the wellsite access road or any special restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal, or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately 1.5 acres of land surface from the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and lifestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a

gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil, or water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for subsurface damage to fresh-water aquifers and other geologic formations exists. Minor distractions from aethestics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable committment of resources would be made. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution of the Nash Wash would exist through leaks and spills.

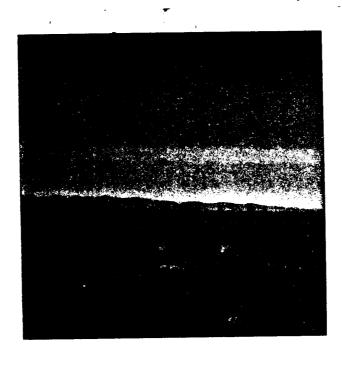
Determination:

This requested action dees/does_not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2)(C).

12/1/78

District Engineer U.S. Geological Survey Conservation Division Oil and Gas Operations

Salt Lake City District



DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah

SERIAL NO.:

17978 A

and hereby designates

Name:

Carmack Drilling Company

ADDRESS:

592 25 Road

Grand Junction, Colorado 81501

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Sections 3 and 10 Township 22 S Range 21 E SLM

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

TOLEDO MINING COMPANY

President (Signature of lessee)

322 Newhouse Building

Salt Lake City, Utah 84111

(Address)

8-21-78

(Date)

U.S. GOVERNMENT PRINTING OFFICE: 1964-O-726-354

9 10 - 536

STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS ** Date: Oct. Operator: Well No: ← County: Entered on N.I.D.: File Prepared: Completion Sheet: Card Indexed: JAPI Number: 4 CHECKED BY: Administrative Assistant: Remarks://o Othe Durell Petroleum Engineer: Remarks: Director: Remarks: INCLUDE WITHIN APPROVAL LETTER: Survey Plat Required: Bond Required: Surface Casing Change Order No. Topographic exception/company owns or controls acreage within a 660' radius of proposed site /____/ O.K. In Unit A.W. Letter Written/Approved

Mapril 2, 1979

Careack Drilling Company 592, 25 Road Grand Junction, CO 81501

Re: Toledo Federal #1A
Sec. 10, T. 22S, R. 21E ofd
Toledo Federal #2A
Sec. 3, T. 22S, R. 21E

Dear Mr. Carmack:

In as much as your firm has Erilled the above mentioned wells without filings notice of intention to drill with this Division and obtaining the Division's approval, you are in violation of Rule C-4, Coneral Rules and Regulations and Rules of Practice and Procedures. In the future you will be required to obtain written approval from the Division prior to initialting any spud-in, drilling, or plugging of wells in the State of Utah.

Should there be another violation, you would leave us no other recourse but to have the Attorney General prepare papers injoining your firm from further work in the State.

Sincerely,

Michael T. Minder, Geological Engineer

MIM/lw

Well Line J. N. BURKHALTER Oil, Gas and Pipeline Consultant Grand Junction, CO 81501

Professional Engineer and Land Surveyor Registered in Rocky Mountain States

April 5, 1979

Telephone 303/242-8555

592 - 25 Road

Mr. Michael T. Minder Geological Engineer Division of Oil, Gas & Mining 1588 West North Temple Salt Lake City, Utah 84116

Re: Toledo Federal No. 1A Sec.10, T225, R21E Toledo Federal No. 2A Sec.3, T225, R21E

serole de Feel #2A

Dear Mr. Minder:

Please refer to your letter dated April 2, 1979, in which you alleged that Carmack Drilling Company violated Rule C-4. I personally obtained verbal permission to skid the rig from the original locations of Toledo Federal #1 and Toledo Federal #2 We were attempting to evaluate shallow gas shows in the mancos. We did not move off the original location.

Enclosed are copies of Federal Form 9-331 C which I have received back from the USGS.

Further, I enclose a photo copy of my carbon copy of the letter transmitting forms 9-331 C to the United States Geological Survey. You will note that a photo copy was sent to Mr. Jack Feight with a note describing the fact that I had obtained verbal permission through the State Office. Mr. Minder, I would like to remind you, that we are not in a habit of violating state or federal rules. I would like to suggest that, in the future, you make sure of your facts before you threaten to go to the Attorney General to make allegations.

J. M. Burkhalter, PE-LS 2: the 3-26-91

JNB/sb enc.

cc: Mr. Robert Carmack Mr. Jack Feight

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

REPAIRING WELL

ALTERING CASING

ABANDON MENT*

(May 1963)	UNITED STATES	SUBMIT IN TRIPLICATE*	Budget Bureau	No. 42-R1424.
	DEPARTMENT OF THE INTERIOR	verse side)	5. LEASE DESIGNATION A	ND SERIAL NO.
	GEOLOGICAL SURVEY	:	U-17978-	A
	SUNDRY NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTER	OR TRIBE NAME
	this form for proposals to drill or to deepen or plug back to Use "APPLICATION FOR PERMIT—" for such proposa			
1.			7. UNIT AGREEMENT NAM	I D
OIL GA	AS ELL X OTHER			
2. NAME OF OPERA	TOR		8. FARM OR LEASE NAME	}
	Carmack Drilling Company			
3. ADDRESS OF OPE			9. WELL NO.	
	592 25 Road, Grand Junctio	n, CO 81501	Toledo Fede	ral #2
4. LOCATION OF WE See also space 1	CLL (Report location clearly and in accordance with any State	requirements.•	10. FIELD AND POOL, OR	
At surface			Wildcat	
			11. SEC., T., R., M., OR BL SURVEY OR AREA	K. AND
13	00' FWL, 1300' FSL			
••			Sec. 3, T22S	, R21E, SLN
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, Q	R, etc.)	12. COUNTY OR PARISH	13. STATE
	4733' GR		GRAND	UTAH
16.	Check Appropriate Box To Indicate Nature	e of Notice, Report, or O	Other Data	
	NOTICE OF INTENTION TO:	BUBSEQU	ENT REPORT OF:	
		;	-	

CHANGE PLANS REPAIR WELL (NOTE: Report results of multiple completion on Weil Completion or Recompletion Report and Log form.) (Other) Plan to plug back 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Plan to plug back from 1516' to 600'. First plug from 1250' to 1060' with 40 sx class "G" cement. Second plug from 850' to 600' with 40 sx class "G" cement.

> APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND DATE:

8. I hereby ceriffy that the foregoing is true and correct		
signed J. M. Bullialt	TITLE Consulting Engineer	DATE 9-15-81
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

UNITED STATES SUBMIT IN DUPLICATE. DEPARTMENT OF THE INTERIOR

Form approved. Budget Bureau No. 42-R355.5.

(See other instructions on reverse side)

Budget Bureau No. 42-R355.5.

Budget Bureau No. 42-R355.5.

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Λ. C	3K/\C)	ude 'sp		14. PE	RMIT NO.		DATE	ISSUED	12. COUNTY	·		3. STATE	
K16-	'yu'	A 0		43-0	<u> </u>	0498	12-	11-78	GRAND			UTAH	
5. DATE SPUDDED 2-25-79	1	E T.D. REAC 28-79	HED 17. DAT	E COMPL.	(Ready to	o prod.) 18.	ELEV		(B, RT, GR, ETC.)*	19.	ELEV.	CASINGHEAD	_
2-25-79			ACK T.D., MD &	emun I on) pp serie	TIPLE COMPL.,		4733 L		1			
	ł			140 22	HOW M			23. INTERVAL DRILLED	BY	ULS	l Cv	ABLE TOOLS	•
1516 MD 4. PRODUCING INTE		651 of this co	PBTD	P, BOTTOM,	NAME (A	dd and Tvd)*		·	Rotary		25. WAS	DIRECTIONAL	L L
					,	,						VEY MADE	
-NA											•	NO	
6. TYPE ELECTRIC										27.	WAS WE	ELL CORED	
Compens	ated	densit							ic			NO	
S. CASING SIZE	WEIG	HT, LB./FT.	CAS			ort all strings	set in		NG RECORD		1		
7"		17 lb	14:			/4"	Δ.	0 sx cl				OUNT PULLED	_
4½"	10			16'	6 1	/4"				ell RFC			
		• • • •						O BA DO	WCII RIC		-		
9.		LII	VER RECORD)				30.	TUBING REC	ORD			_
SIZE	TOP (M	D) B(TTOM (MD)	SACKS CI	EMENT*	SCREEN (MD)	SIZE	DEPTH SET ()	ND)	PACK	ER SET (MD))
	NA						-		NA		_		
1. PERFORATION RE	CORD (Inte	rval, size d	ind number)	!		82.	A CT	D GUOT ED	ACTURE, CEMEN		· ·		
	•		,			DEPTH INT			AMOUNT AND KI				
	_					NA		(112)	AMOUNT AND RE	**************************************	MATERI	AL USED	
NZ	A												_
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3.* ATE FIRST PRODUCT	NON	PRODUCT	ON METHOD (Floreina a		OUCTION	and to	ne of oums)			um (Duo	ducing or	
NA			(NA	, , p.	onephoy		pe oj pampj		ut-in)			
ATE OF TEST	HOURS ?	PESTED	CHOKE SIZE	PROD'I	N. FOR	OIL-BBL.		GAS-MCF.	WATER-BB		hut GAS-OI	IN RATIO	
	1			TEST	PERIOD				[
LOW. TUBING PRESS.	CASING	PRESSURE	CALCULATED 24-HOUR RAT	OILI	BBL.	GAS	CF.	WAT	ER—BBL.	OIL C	GRAVITY	-API (CORR.)	_
			>										
4. DISPOSITION OF G	AS (Sold,	used for fue	i, vented, etc.)						TEST WITNE	Sand F	BY		_
5. LIST OF ATTACH	MENTS								<u> </u>				_
								*					
6. I hereby certify	that the	foregoing a	nd attached in	formation	is compl	lete and corre	ct as	determined fro	om all available	records	8	·	-
/:	11 R.	detast	1/									0.0	
SIGNED	11. 72	ywigh	<u>/</u>	TI	rle	consult	ınc	Engine	er DAT	E _9	-15-	-82	

TUS R22E 59 YOUR CERTIFIED INSURANCE COMSELOR



4526 EAST UNIVERSITY - (915) 362-0431 ODESSA, TEXAS 79764

August 24, 1983



State of Utah Dept. of Natural Resources Division of Oil, Gas & Mining Salt Lake City, Utah

West Rangely Operating Co., Inc. Re: Operator For Toledo Mining Co.

Gentlemen:

Sec. 3 225 R21E

We hold bond #18-0130-01495-78-4 payable to State of Utah, Dept. of Natural Resources Division in the amount of \$5,000.

The insured has asked for a release on this bond. Serial Permit #17978A.

Can you furnish us a release for this bond?

Thank you.

MURPHY & ROCHESTER AND ASSOCIATES, INC.

Sandie Whisenhunt



MEMBER OF THE SOCIETY OF CERTIFIED INSURANCE COUNSELORS